

What Is Claimed Is:

Claim 1:

An exhaust gas processing apparatus used in a diesel vehicle etc.

5 characterized in that

by arranging in a front stage of a processing system or arranging together, at least one centrifugal separation machine such as a cyclone is provided,

whereby a particle shape substance in an exhaust gas is caught.

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Claim 2:

An exhaust gas processing apparatus according to claim 1,

characterized in that

to said at least one centrifugal separation machine such as said

15 cyclone provided in said processing system,

whereby an efficiency of said at least one centrifugal separation machine such as said cyclone is improved.

Claim 3:

20 An exhaust gas processing apparatus according to claim 1 or claim 2,

characterized in that

to improve said at least one centrifugal separation machine such as said cyclone, an air pressure generation apparatus is constituted in said processing system.

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**Claim 4:**

An exhaust gas processing apparatus used in a diesel vehicle etc.  
characterized in that

by arranging in a front stage of a processing system or arranging  
5 together, and using an anti-environment material, at least one of a brush, a  
heater, a burner and a high pressure injection nozzle is provided.

**Claim 5:**

An exhaust gas processing apparatus used in a diesel vehicle etc.  
10 characterized in that  
to catch and decompose a particle shape substance in an exhaust gas  
and a substance containing NO<sub>x</sub> etc., at least one interference box for  
mitigating and averaging a change of a flow in a front stage of a processing  
system is provided.

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**Claim 6:**

An exhaust gas processing apparatus according to claim 1,  
characterized in that  
in said processing system, said cyclone is combined with an electric  
20 dust collection apparatus.

**Claim 7:**

An exhaust gas processing apparatus according to claim 5,  
characterized in that  
25 in said processing system, a cyclone is combined with an electric dust  
collection apparatus in the exhaust gas processing apparatus.